

IN THE CLAIMS:

Cancel claims 14 and 17 without prejudice and amend claims 3 and 9 as shown in the following listing of claims, which replaces all previous listings and versions of claims.

1. (canceled).

2. (original) An electronic instrument having a magnetic sensor comprising:

a circular or substantially circular component that is susceptible to magnetization;

a magnetic sensor to output a signal corresponding to a direction of a magnetic field that is arranged in an arbitrary position on a straight line passing the center of said component such that said straight line and a detection axis of magnetism coincide; and

a correcting circuit to correct the signal outputted from said magnetic sensor in accordance with the relative position between said component and said magnetic sensor.

3. (currently amended) An electronic instrument having a magnetic sensor comprising:

a circular or substantially circular component that is susceptible to magnetization;

an X axis magnetic sensor to detect a magnetic field component in an X axis direction that is arranged in an arbitrary position in a distance within the area of approximately $2^{-1/2}$ of the radius from the center of said component, or is arranged such that a detection axis of said magnetic sensor overlaps an X axis passing through the center of said component in an arbitrary position on said X axis or on its extended line;

a Y axis magnetic sensor to detect a magnetic field component in a Y axis direction that is arranged in an arbitrary position in a distance within the area of approximately $2^{-1/2}$ of the radius from the center of said component, or is arranged such that ~~an~~ a detection axis of the magnetic sensor overlaps an Y axis passing through said component and perpendicular to said X axis in an arbitrary position on said Y axis or on its extended line; and

a correcting circuit to correct the signals outputted from said X axis magnetic sensor and said Y axis magnetic sensor in accordance with the relative position between said component and said X and Y magnetic sensors.

4. (canceled).

5. (original) An electronic instrument having a magnetic sensor according to claim 2, wherein said component that is susceptible to magnetization is a battery made of stainless steel.

6. (original) An electronic instrument having a magnetic sensor according to claim 3, wherein said component that is susceptible to magnetization is a battery made of stainless steel.

7. (canceled).

8. (original) An electronic instrument having a magnetic sensor comprising:

a circular or substantially circular component assuming magnetism in the vicinity of its circumference by processing;

a magnetic sensor to output a signal corresponding to a direction of a magnetic field that is arranged in an arbitrary position on a straight line passing the center of said component such that said straight line and a detection axis of magnetism coincide; and

a correcting circuit to correct the signal outputted from said magnetic sensor depending on the relative position between said component and said magnetic sensor.

9. (currently amended) An electronic instrument having a magnetic sensor comprising:

a circular or substantially circular component assuming magnetism in the vicinity of its circumference by processing;

an X axis magnetic sensor for detecting a magnetic field component in the X axis direction that is arranged in a position inside said vicinity of the circumference assuming magnetism of said circular or substantially circular component, or is arranged such that a detection axis of said magnetic sensor overlaps an X axis passing through the center of said component in an arbitrary position ~~ent-he~~ on the X axis or on its extended line;

a Y axis magnetic sensor for detecting a magnetic component in a Y axis direction that is arranged inside said vicinity of the circumference assuming magnetism of said circular or substantially circular component, or is arranged such that a detection axis of said magnetic sensor overlaps a Y axis passing through the center of said component and perpendicular to said X axis in an arbitrary position on the Y axis or on its extended line; and

a correcting circuit to correct the signals outputted from said X axis magnetic sensor and said Y axis magnetic sensor.

10. (canceled).

11. (original) An electronic instrument having a magnetic sensor according to claim 8, wherein said circular or substantially circular component is a battery made of stainless steel.

12. (original) An electronic instrument having a magnetic sensor according to claim 9, wherein said circular or substantially circular component is a battery made of stainless steel.

13. (canceled).

14. (canceled).

15. (original) An electronic instrument having a magnetic sensor according to claim 3, wherein said magnetic sensor, said Y axis magnetic sensor or said X axis magnetic sensor consists of a two axis magnetic sensor that is capable of measuring both the magnetic field components in said X axis direction and in said Y axis direction perpendicular to said X axis.

16.- 17. (canceled).

18. (original) An electronic instrument having a magnetic sensor according to claim 9, wherein said magnetic sensor, said Y axis magnetic sensor or said X axis magnetic sensor consists of a two axis magnetic sensor that is capable of measuring both the magnetic field components in said X axis direction and in said Y axis direction perpendicular to said X axis.

19. (canceled).

20. (original) An electronic instrument having a magnetic sensor according to claim 2, wherein said electronic instrument is an electronic azimuth indicator, a wristwatch with an electronic azimuth indicator, a pressure gauge with an electronic azimuth indicator, a car navigation terminal apparatus, a portable electronic instrument with an electronic azimuth indicator, or an electronic instrument with an electronic azimuth indicator.

21. (original) An electronic instrument having a magnetic sensor according to claim 3, wherein said electronic instrument is an electronic azimuth indicator, a wristwatch with an electronic azimuth indicator, a pressure gauge with an electronic azimuth indicator, a car navigation terminal apparatus, a portable electronic instrument with an electronic azimuth indicator, or an electronic instrument with an electronic azimuth indicator.

22. (canceled).

23. (original) An electronic instrument having a magnetic sensor according to claim 8, wherein said electronic instrument is an electronic azimuth indicator, a wristwatch with an electronic azimuth indicator, a pressure gauge with an electronic azimuth indicator, a car navigation terminal apparatus, a portable electronic instrument with an electronic azimuth indicator, or an electronic instrument with an electronic azimuth indicator.

24. (original) An electronic instrument having a magnetic sensor according to claim 8, wherein said electronic instrument is an electronic azimuth indicator, a wristwatch with an electronic azimuth indicator, a pressure gauge with an electronic azimuth indicator, a car navigation terminal apparatus, a portable electronic instrument with an electronic azimuth indicator, or an electronic instrument with an electronic azimuth indicator.